

COST IN U.S. DOLLARS

SINCE FILE  
ENTRY  
3.05

TOTAL  
SESSION  
3.26

FULL ESTIMATED COST

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FILE LAST UPDATED: 11 Jun 2006 (20060611/ED)

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=> s (raman) (8a) (lithium) (8a) enhanc?

147948 RAMAN

15 RAMANS

147948 RAMAN

(RAMAN OR RAMANS)

307196 LITHIUM

360 LITHIUMS

307322 LITHIUM

(LITHIUM OR LITHIUMS)

901384 ENHANC?

L2 29 (RAMAN) (8A) (LITHIUM) (8A) ENHANC?

=> d ti 1-29

L2 ANSWER 1 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

TI Experimental studies of enhanced Raman scattering from a hexagonally poled LiTaO3 crystal

L2 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

TI Study on surface enhanced Raman spectroscopy of DMSO and imidazole at silver electrode in acetonitrile solution

L2 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

TI Specific chemical effects on surface-enhanced Raman spectroscopy for ultra-sensitive detection of biological molecules

L2 ANSWER 4 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

TI Methods and systems for detecting analytes by chemical enhancement in surface enhanced Raman scattering using lithium salts

L2 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

TI Chemical enhancement in surface enhanced Raman scattering using lithium salts

L2 ANSWER 6 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN

TI Biomolecule analysis by rolling circle amplification and SERS detection

and system for such analysis

- L2 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI SERS investigation of interfacial water at a silver electrode in acetonitrile solutions
- L2 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Study on solid electrolyte interface film and the relative properties of anode materials for lithium ion batteries
- L2 ANSWER 9 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Competitive adsorption studies of pyridine and acetonitrile on platinum electrodes in non-aqueous system by surface-enhanced Raman spectroscopy
- L2 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Surface-enhanced Raman scattering of pyridine on platinum and nickel electrodes in nonaqueous solutions
- L2 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Surface-enhanced Raman spectroscopy studies of platinum surfaces in acetonitrile solutions
- L2 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Surface-enhanced Raman spectroscopy studies of phenylpyridines interacting with a copper electrode surface
- L2 ANSWER 13 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Further identification to the SEI film on Ag electrode in lithium batteries by surface enhanced Raman scattering (SERS)
- L2 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The alkali metal cation effect on the surface-enhanced Raman spectra of phosphate anions adsorbed at silver electrodes
- L2 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Surface-enhanced Raman spectroscopy and electrochemistry at the copper|4-phenylpyridine interface
- L2 ANSWER 16 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Raman spectral studies on solid state interphase in Li batteries
- L2 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Secondary nonaqueous electrolyte batteries, manufacture of anode materials, and apparatus for evaluating and manufacture graphite
- L2 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Surface-Enhanced Raman Scattering Study on Passivating Films of Ag Electrodes in Lithium Batteries
- L2 ANSWER 19 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Surface-enhanced resonance Raman spectroscopy of Ru and Os polyvinylpyridine adsorbed on silver electrodes
- L2 ANSWER 20 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Interfacial solvent structure in butan-1-ol, butan-2-ol and 2-methylpropan-1-ol at Au and Ag electrodes from surface-enhanced Raman scattering and capacitance measurements
- L2 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Characterization and surface-enhanced Raman spectroscopy of alkali metal sols
- L2 ANSWER 22 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Temporal evolution of Raman intensities on surface-enhanced Raman scattering active copper and gold electrodes at negative potentials

L2 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Surface-Enhanced Raman Scattering from Silver Electrode Surfaces in  
 Contact with Solutions of LiAsF<sub>6</sub> + Tetramethylammonium Bromide/Methyl  
 Acetate

L2 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI SERS and impedance studies of pyrrole adsorption on a polycrystalline  
 silver electrode

L2 ANSWER 25 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Non-aqueous surface-enhanced Raman scattering spectra of benzene

L2 ANSWER 26 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Investigations of electrode surfaces in acetonitrile solutions using  
 surface-enhanced Raman spectroscopy

L2 ANSWER 27 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI A detailed analysis of the Raman enhancement mechanisms  
 associated with the interaction of a Raman scatterer with a  
 resonant metal cluster: results for lithium-hydrogen

L2 ANSWER 28 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Orientation dependence of surface enhanced Raman intensities: results  
 from ab initio calculations

L2 ANSWER 29 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Time-dependent Hartree-Fock calculations of surface-enhanced  
 Raman intensities. Molecular hydrogen adsorbed on a model  
 lithium cluster

=> d kwic 10, 14, 21, 23

L2 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 IT 7791-03-9, Lithium perchlorate  
 RL: NUU (Other use, unclassified); PRP (Properties); USES (Uses)  
 (surface-enhanced Raman scattering of pyridine  
 adsorbed on roughened platinum and nickel electrodes in nonaq. solns.  
 containing)

L2 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 IT 10377-48-7, Lithium sulfate  
 RL: NUU (Other use, unclassified); PRP (Properties); USES (Uses)  
 (surface-enhanced Raman spectrum of adsorbed  
 phosphate on silver electrodes in solution containing Li<sub>2</sub>SO<sub>4</sub> and Na<sub>2</sub>HPO<sub>4</sub>)

L2 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 IT 7439-93-2, Lithium, properties 7440-09-7, Potassium,  
 properties 7440-17-7, Rubidium, properties 7440-23-5, Sodium,  
 properties 7440-46-2, Cesium, properties  
 RL: PRP (Properties)  
 (characterization and surface-enhanced Raman  
 spectroscopy of alkali metal sols)

L2 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
 IT Raman spectra  
 (surface-enhanced, of solvated lithium and  
 tetramethylammonium ions on silver electrode)

=> d bib 10, 14, 21, 234

29 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE  
 The answer numbers requested are not in the answer set.  
 ENTER ANSWER NUMBER OR RANGE (1):23

L2 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 1994:466503 CAPLUS  
DN 121:66503  
TI Surface-Enhanced Raman Scattering from Silver Electrode Surfaces in  
Contact with Solutions of LiAsF<sub>6</sub> + Tetramethylammonium Bromide/Methyl  
Acetate  
AU Deng, Zhongyi; Irish, Donald E.  
CS Guelph-Waterloo Centre for Graduate Work in Chemistry, University of  
Waterloo, Waterloo, ON, N2L 3G1, Can.  
SO Langmuir (1994), 10(2), 586-91  
CODEN: LANGD5; ISSN: 0743-7463  
DT Journal  
LA English

=> d bib 10, 14, 21

L2 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2002:857788 CAPLUS  
DN 138:177217  
TI Surface-enhanced Raman scattering of pyridine on platinum and nickel  
electrodes in nonaqueous solutions  
AU Cao, Peigen; Gu, Renao; Ren, Bin; Tian, Zhongqun  
CS Department of Chemistry, Suzhou University, Suzhou, 215006, Peop. Rep.  
China  
SO Chemical Physics Letters (2002), 366(3,4), 440-446  
CODEN: CHPLBC; ISSN: 0009-2614  
PB Elsevier Science B.V.  
DT Journal  
LA English  
RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2001:556129 CAPLUS  
DN 136:11790  
TI The alkali metal cation effect on the surface-enhanced Raman spectra of  
phosphate anions adsorbed at silver electrodes  
AU Niaura, G.; Jakubenas, R.  
CS Institute of Chemistry, Vilnius, LT-2600, Lithuania  
SO Journal of Electroanalytical Chemistry (2001), 510(1-2), 50-58  
CODEN: JECHE5; ISSN: 0368-1874  
PB Elsevier Science S.A.  
DT Journal  
LA English  
RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 1996:72442 CAPLUS  
DN 124:130171  
TI Characterization and surface-enhanced Raman spectroscopy of alkali metal  
sols  
AU Bozlee, B.; Clark, S.; Slaughter, S.; McWatters, M.; Choi, Y.  
CS Dep. Chem., Whitman College, Walla Walla, WA, 99362, USA  
SO Journal of Raman Spectroscopy (1996), 27(1), 75-82  
CODEN: JRSPAF; ISSN: 0377-0486  
PB Wiley  
DT Journal  
LA English

=> s (raman) (8a) (LiCl) (8a) enhanc?  
147948 RAMAN

15 RAMANS  
147948 RAMAN  
(RAMAN OR RAMANS)

29642 LICL  
901384 ENHANC?

L3 2 (RAMAN) (8A) (LICL) (8A) ENHANC?

=> d ti 1-2

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Temporal evolution of Raman intensities on surface-enhanced Raman scattering active copper and gold electrodes at negative potentials

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Absorption spectra and surface-enhanced Raman spectra of silver organosols

=> d kwic 2

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
AB The effects of 2-aminobenzoimidazole (BIMNH2), NaOEt, or LiCl on the absorption spectra and surface enhanced Raman scattering (SERS) spectra were studied for Ag organosols. The exptl. results indicate that a small amount of the adsorbed mols.. . .

=> d bib 2

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 1992:498338 CAPLUS  
DN 117:98338  
TI Absorption spectra and surface-enhanced Raman spectra of silver organosols  
AU Gu, Renao; he, Zhangfei  
CS Dep. Chem., Suzhou Univ., Suzhou, 215006, Peop. Rep. China  
SO Gaodeng Xuexiao Huaxue Xuebao (1992), 13(6), 791-4  
CODEN: KTHPDM; ISSN: 0251-0790  
DT Journal  
LA Chinese

=> d kwic 1

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
IT 7447-40-7, Potassium chloride (KCl), properties 7447-41-8, Lithium chloride (LiCl), properties 7758-89-6, Copper chloride (CuCl)  
RL: PRP (Properties)  
(roughening solution; temporal evolution of Raman intensities on surface-enhanced Raman scattering of pyridine on active copper and gold electrodes at neg. potentials)

=> s (raman) (8a) (LiCl or MgCl or KBr or NaF or LiI or CaCl) (8a) enhanc?

147948 RAMAN  
15 RAMANS  
147948 RAMAN  
(RAMAN OR RAMANS)  
29642 LICL  
1042 MGCL  
27376 KBR  
2 KBRs  
27377 KBR  
(KBR OR KBRs)  
32550 NAF  
17 NAFs  
32563 NAF

(NAF OR NAFS)  
 5474 LII  
     3 LIIS  
 5476 LII  
     (LII OR LIIS)  
     747 CACL  
       3 CACLS  
     750 CACL  
       (CACL OR CACLS)  
 901384 ENHANC?  
 L4       7 (RAMAN) (8A) (LICL OR MGCL OR KBR OR NAF OR LII OR CACL) (8A)  
           ENHANC?

=> d ti 1-7

L4   ANSWER 1 OF 7   CAPLUS   COPYRIGHT 2006 ACS on STN  
 TI   SERS study of the electrochemical reduction of pyrazine on a silver  
       electrode  
  
 L4   ANSWER 2 OF 7   CAPLUS   COPYRIGHT 2006 ACS on STN  
 TI   The adsorption and orientation of pyrazine on silver electrodes: a  
       surface-enhanced Raman scattering study  
  
 L4   ANSWER 3 OF 7   CAPLUS   COPYRIGHT 2006 ACS on STN  
 TI   Temporal evolution of Raman intensities on surface-enhanced Raman  
       scattering active copper and gold electrodes at negative potentials  
  
 L4   ANSWER 4 OF 7   CAPLUS   COPYRIGHT 2006 ACS on STN  
 TI   Preresonance Raman effect on the OD stretching Raman spectra of methanolic  
       lithium halide (LiX) solutions (X = Cl, Br and I)  
  
 L4   ANSWER 5 OF 7   CAPLUS   COPYRIGHT 2006 ACS on STN  
 TI   Absorption spectra and surface-enhanced Raman spectra of silver organosols  
  
 L4   ANSWER 6 OF 7   CAPLUS   COPYRIGHT 2006 ACS on STN  
 TI   Surface enhanced Raman scattering and local photoemission currents on the  
       freshly prepared surface of a silver electrode  
  
 L4   ANSWER 7 OF 7   CAPLUS   COPYRIGHT 2006 ACS on STN  
 TI   SERS from silver colloids in alkali halide crystals

=> d kwic 4, 7

L4   ANSWER 4 OF 7   CAPLUS   COPYRIGHT 2006 ACS on STN  
 AB   . . . between halide ions and their solvated methanol mols. The small  
       dissociation of dissolved LiI mols. is the reason why no enhancement  
       of the intensity is observed in the Raman OD stretching spectrum  
       for a glassy methanolic LiI solution  
  
 L4   ANSWER 7 OF 7   CAPLUS   COPYRIGHT 2006 ACS on STN  
 AB   Surface-enhanced Raman scattering (SERS) was  
       investigated for NaCl, KCl, KBr, and KI crystals doped with Ag.  
       By stepwise annealing the controlled formation and growth of Ag colloids  
       out of Ag-. . .

=> s (raman) (8a) (magnesium or calcium or potassium or alkali or alkyl or halide)  
 (8a) enhanc?  
     147948 RAMAN  
       15 RAMANS  
     147948 RAMAN  
       (RAMAN OR RAMANS)  
     454833 MAGNESIUM  
       89 MAGNESIUMS

454867 MAGNESIUM  
           (MAGNESIUM OR MAGNESIUMS)  
 766912 CALCIUM  
       34 CALCIUMS  
 766915 CALCIUM  
           (CALCIUM OR CALCIUMS)  
 591551 POTASSIUM  
       16 POTASSIUMS  
 591553 POTASSIUM  
           (POTASSIUM OR POTASSIUMS)  
 399413 ALKALI  
       4473 ALKALIS  
       31867 ALKALIES  
 419842 ALKALI  
           (ALKALI OR ALKALIS OR ALKALIES)  
 568773 ALKYL  
       6281 ALKYLS  
 571602 ALKYL  
           (ALKYL OR ALKYLS)  
 151022 HALIDE  
 126428 HALIDES  
 219672 HALIDE  
           (HALIDE OR HALIDES)  
 901384 ENHANC?  
 L5      178 (RAMAN) (8A) (MAGNESIUM OR CALCIUM OR POTASSIUM OR ALKALI OR  
           ALKYL OR HALIDE) (8A) ENHANC?

=> s (raman) (8a) (magnesium or calcium or potassium or alkali) (8a) enhanc?  
       147948 RAMAN  
           15 RAMANS  
       147948 RAMAN  
           (RAMAN OR RAMANS)  
       454833 MAGNESIUM  
           89 MAGNESIUMS  
       454867 MAGNESIUM  
           (MAGNESIUM OR MAGNESIUMS)  
       766912 CALCIUM  
           34 CALCIUMS  
       766915 CALCIUM  
           (CALCIUM OR CALCIUMS)  
       591551 POTASSIUM  
           16 POTASSIUMS  
       591553 POTASSIUM  
           (POTASSIUM OR POTASSIUMS)  
       399413 ALKALI  
           4473 ALKALIS  
           31867 ALKALIES  
       419842 ALKALI  
           (ALKALI OR ALKALIS OR ALKALIES)  
       901384 ENHANC?  
 L6      125 (RAMAN) (8A) (MAGNESIUM OR CALCIUM OR POTASSIUM OR ALKALI) (8A)  
           ENHANC?

=> s (raman) (5a) (magnesium or calcium or potassium or alkali) (5a) enhanc?  
       147948 RAMAN  
           15 RAMANS  
       147948 RAMAN  
           (RAMAN OR RAMANS)  
       454833 MAGNESIUM  
           89 MAGNESIUMS  
       454867 MAGNESIUM  
           (MAGNESIUM OR MAGNESIUMS)  
       766912 CALCIUM  
           34 CALCIUMS  
       766915 CALCIUM

(CALCIUM OR CALCIUMS)  
 591551 POTASSIUM  
     16 POTASSIUMS  
 591553 POTASSIUM  
     (POTASSIUM OR POTASSIUMS)  
 399413 ALKALI  
     4473 ALKALIS  
     31867 ALKALIES  
 419842 ALKALI  
     (ALKALI OR ALKALIS OR ALKALIES)  
 901384 ENHANC?  
 L7       89 (RAMAN) (5A) (MAGNESIUM OR CALCIUM OR POTASSIUM OR ALKALI) (5A)  
           ENHANC?

=> s (raman) (5a) ((alkali or alkyl) (2a) halide) (5a) enhanc?

147948 RAMAN  
     15 RAMANS  
 147948 RAMAN  
     (RAMAN OR RAMANS)  
 399413 ALKALI  
     4473 ALKALIS  
     31867 ALKALIES  
 419842 ALKALI  
     (ALKALI OR ALKALIS OR ALKALIES)  
 568773 ALKYL  
     6281 ALKYLs  
 571602 ALKYL  
     (ALKYL OR ALKYLs)  
 151022 HALIDE  
 126428 HALIDES  
 219672 HALIDE  
     (HALIDE OR HALIDES)  
 901384 ENHANC?  
 L8       4 (RAMAN) (5A) ((ALKALI OR ALKYL) (2A) HALIDE) (5A) ENHANC?

=> d ti 1-4

L8   ANSWER 1 OF 4   CAPLUS   COPYRIGHT 2006 ACS on STN  
 TI   Investigations of silver electrode surfaces in propylene carbonate/  
       alkali halide electrolytes by surface-enhanced  
       Raman scattering  
  
 L8   ANSWER 2 OF 4   CAPLUS   COPYRIGHT 2006 ACS on STN  
 TI   Surface enhanced Raman scattering (SERS) on silver electrodes; effect of  
       alkali ions and halide ions on the structure of adsorbed water  
  
 L8   ANSWER 3 OF 4   CAPLUS   COPYRIGHT 2006 ACS on STN  
 TI   SERS from silver colloids in alkali halide crystals  
  
 L8   ANSWER 4 OF 4   CAPLUS   COPYRIGHT 2006 ACS on STN  
 TI   Surface enhanced Raman scattering from silver electrodes:   formation and  
       photolysis of chemisorbed pyridine species

=> d bib, kwic 1,2

L8   ANSWER 1 OF 4   CAPLUS   COPYRIGHT 2006 ACS on STN  
 AN   1986:597668   CAPLUS  
 DN   105:197668  
 TI   Investigations of silver electrode surfaces in propylene carbonate/  
       alkali halide electrolytes by surface-enhanced  
       Raman scattering  
 AU   Hill, I. R.; Irish, D. E.; Atkinson, G. F.  
 CS   Dep. Chem., Univ. Waterloo, Waterloo, ON, N2L 3G1, Can.  
 SO   Langmuir (1986), 2(6), 752-7



CODEN: LANGD5; ISSN: 0743-7463

DT Journal  
 LA English  
 TI Investigations of silver electrode surfaces in propylene carbonate/  
 alkali halide electrolytes by surface-enhanced  
 Raman scattering

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1985:175322 CAPLUS  
 DN 102:175322  
 TI Surface enhanced Raman scattering (SERS) on silver electrodes; effect of  
 alkali ions and halide ions on the structure of adsorbed water  
 AU Zimmer, Dieter; Klostermann, Klaus  
 CS Sekt. Chem., Tech. Univ. Dresden, Dresden, Ger. Dem. Rep.  
 SO Zeitschrift fuer Chemie (1984), 24(12), 450-1  
 CODEN: ZECEAL; ISSN: 0044-2402

DT Journal  
 LA German  
 IT Electric double layer  
 (of water on silver electrodes, effect of alkali metal  
 halides structure of, surface-enhanced Raman  
 scattering study of)

IT Adsorbed substances  
 (water on silver electrodes, surface-enhanced Raman  
 scattering of, effect of alkali halides of)

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LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
112.03	115.29

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-2.25	-2.25

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=> index all

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FILE 'ENCOMPPAT2' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

INDEX 'ABI-INFORM, ADISCTI, AEROSPACE, AGRICOLA, ALUMINIUM, ANABSTR, ANTE, APOLLIT, AQUALINE, AQUASCI, AQUIRE, BABS, BIBLIODATA, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CEABA-VTB, CERAB, CHEMINFORMRX, CHEMSAFE, ...'

ENTERED AT 10:29:37 ON 27 JUN 2006

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=> s (glycidoxypropyltrimethoxysilane or GOP) (AND) (nanoparticle) MISSING OPERATOR GOP) (AND

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s (glycidoxypropyltrimethoxysilane or GOP) (AND) nanoparticle MISSING OPERATOR GOP) (AND

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s (glycidoxypropyltrimethoxysilane or GOP) AND nanoparticle

- 1 FILE AEROSPACE
- 2 FILE ALUMINIUM
- 2 FILE BIOTECHABS
- 2 FILE BIOTECHDS
- 1 FILE BIOTECHNO

51 FILE CAPLUS  
 1 FILE CEABA-VTB  
 3 FILE CERAB  
 11 FILE COMPENDEX  
 1 FILE CORROSION  
 40 FILES SEARCHED...  
 1 FILE ELCOM  
 1 FILE EMA  
 1 FILE EMBASE  
 1 FILE ENCOMPAT  
 13 FILE EPFULL  
 3 FILE GBFULL  
 10 FILE IFIPAT  
 73 FILES SEARCHED...  
 1 FILE INPADOC  
 8 FILE INSPEC  
 3 FILE MEDLINE  
 2 FILE METADEX  
 9 FILE PASCAL  
 76 FILE PCTFULL  
 102 FILES SEARCHED...  
 5 FILE RAPRA  
 15 FILE SCISEARCH  
 1 FILE SOLIDSTATE  
 4 FILE TEMA  
 6 FILE TOXCENTER  
 151 FILE USPATFULL  
 29 FILE USPAT2  
 6 FILE WPIDS  
 1 FILE WPIFV  
 132 FILES SEARCHED...  
 6 FILE WPINDEX  
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L1 QUE (GLYCIDOXYPROPYLTRIMETHOXYSILANE OR GOP) AND NANOPARTICLE

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=> s (glycidoxypropyltrimethoxysilane or GOP) AND nanoparticle  
 L2 55 (GLYCIDOXYPROPYLTRIMETHOXYSILANE OR GOP) AND NANOPARTICLE

=> dup remove l2  
 PROCESSING COMPLETED FOR L2  
 L3 54 DUP REMOVE L2 (1 DUPLICATE REMOVED)

=> s (glycidoxypropyltrimethoxysilane or GOP) (p) nanoparticle  
 L4 32 (GLYCIDOXYPROPYLTRIMETHOXYSILANE OR GOP) (P) NANOPARTICLE

=> dup remove l4  
 PROCESSING COMPLETED FOR L4

L5 31 DUP REMOVE L4 (1 DUPLICATE REMOVED)

=> d ti 1-31

L5 ANSWER 1 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Partial discharge-resistant, electrically insulating resin compositions, materials therefrom, and their structures for high-voltage equipment

L5 ANSWER 2 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Corrosion protective properties of nanostructured sol-gel hybrid coatings to AA2024-T3

L5 ANSWER 3 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Superparamagnetic silica nanoparticles with immobilized metal affinity ligands for protein adsorption

L5 ANSWER 4 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Development of Nanoparticle Libraries for Biosensing

L5 ANSWER 5 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Surface treating of nanoparticles to control interfacial properties and method of manufacture.

L5 ANSWER 6 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Nanoparticles surface-treated with star-graft copolymers to control interfacial properties

L5 ANSWER 7 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Bio-film-inhibiting protective layer containing silica nanoparticles

L5 ANSWER 8 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Multifunctional finishing agent containing modified oxide nanoparticle with good UV resistance and antibacterial property, preparation and application thereof

L5 ANSWER 9 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Effects of heat treatment temperature on up-conversion luminescence properties of titania/ $\gamma$ -glycidoxypyrtrimethoxysilane composite thin films dispersed with neodymium oxalate nanoparticles

L5 ANSWER 10 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Synthesis of poly(.vepsiln.-caprolactone)-silica nanocomposites: from hairy colloids to core-shell nanoparticles

L5 ANSWER 11 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Hairy PEO-silica nanoparticles through surface-initiated polymerization of ethylene oxide

L5 ANSWER 12 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Nanostructured sol-gel coatings doped with cerium nitrate as pre-treatments for AA2024-T3. Corrosion protection performance

L5 ANSWER 13 OF 31 MEDLINE on STN DUPLICATE 1  
TI Optimization of gold nanoparticle-based DNA detection for microarrays.

L5 ANSWER 14 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Coating composition having a non-newtonian behavior.

L5 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Method of preparing surface modifiers for nanoparticles, surface-modified inorganic oxide nanoparticles, and applications thereof

L5 ANSWER 16 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Preparation of corona-tolerant wire paints containing modified

nanoparticles

- L5 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Functionalized Fluorescent Oxide Nanoparticles: Artificial Toxins for Sodium Channel Targeting and Imaging at the Single-Molecule Level
- L5 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Incorporated organic modified Ag nanoparticles in ormoecer
- L5 ANSWER 19 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Heat-induced precipitation and light-induced dissolution of metal (Ag & Au) nanoparticles in hybrid film
- L5 ANSWER 20 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Method for preparing stable dispersions of metallic nanoparticles, stable dispersions obtained therefrom and coating compositions containing them
- L5 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Preparation of Silver Nanoparticles through Alcohol Reduction with Organoalkoxysilanes
- L5 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Sol-Gel Synthesis of Hybrid Organic-Inorganic Monoliths Doped with Colloidal CdSe/ZnS Core-Shell Nanocrystals
- L5 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Glass transition behavior of alumina/polymethylmethacrylate (PMMA) nanocomposites
- L5 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Surface analytical study of self-assembled nanophase particle (SNAP) surface treatments
- L5 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Modified silica particles for gene delivery
- L5 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Photoluminescence of erbium oxide nanocrystals/TiO<sub>2</sub>/  $\gamma$ -glycidoxypropyltrimethoxysilane (GLYMO) composite sol-gel thin films derived at low temperature
- L5 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Preparation of organic-inorganic multifunctional nanocomposite coating via sol-gel routes
- L5 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Thermal and mechanical properties of alumina/polymethyl methacrylate (PMMA) nanocomposites
- L5 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Up-conversion luminescence of erbium (III) oxalate nanoparticles /titania/ $\gamma$ -Glycidoxypropyltrimethoxysilane composite sol-gel thin films
- L5 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The effect of nanoscaled metal oxide sols on the structure and properties of glycidoxypropyltrimethoxysilane derived sols and gels
- L5 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Generation of wet-chemical AR-coatings on plastic substrates by use of polymerizable nanoparticles

L5 ANSWER 13 OF 31 MEDLINE on STN DUPLICATE 1  
 AN 2005244688 MEDLINE  
 DN PubMed ID: 15883771  
 TI Optimization of gold nanoparticle-based DNA detection for microarrays.  
 AU Festag Grit; Steinbruck Andrea; Wolff Andreas; Csaki Andrea; Moller Robert; Fritzsche Wolfgang  
 CS Institute for Physical High Technology Jena, Jena, Germany..  
 grit.festag@ipht-jena.de  
 SO Journal of fluorescence, (2005 Mar) Vol. 15, No. 2, pp. 161-70.  
 Journal code: 9201341. ISSN: 1053-0509.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200509  
 ED Entered STN: 11 May 2005  
 Last Updated on STN: 27 Sep 2005  
 Entered Medline: 26 Sep 2005  
 AB DNA microarrays are promising tools for fast and highly parallel DNA detection by means of fluorescence or gold nanoparticle labeling. However, substrate modification with silanes (as a prerequisite for capture DNA binding) often leads to inhomogeneous surfaces and/or nonspecific. . . examined both different substrate cleaning and activating protocols and also different blocking strategies for optimizing the procedures, especially those for nanoparticle labeling. Contact angle measurements as well as fluorescence microscopy, atomic force microscopy (AFM), and a flatbed scanner were used to. . . to similar hydrophobic surfaces which could be revealed as smooth surfaces of about 2-4 nm roughness. The two examined silanes (3-glycidoxypropyltrimethoxysilane (GOPS) and 3-aminopropyltriethoxysilane (APTES)) differed in their DNA binding homogeneity, maximum signal intensities, and sensitivity. Nonspecific gold binding on APTES/PDC surfaces. . .

L5 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:430386 CAPLUS  
 DN 141:8009  
 TI Method of preparing surface modifiers for nanoparticles, surface-modified inorganic oxide nanoparticles, and applications thereof  
 IN Wu, Ru-Yu; Wang, Jeng-Gung; Chiang, Shiaw-Tseh  
 PA Far Eastern Textile Ltd., Taiwan  
 SO U.S. Pat. Appl. Publ., 9 pp.  
 CODEN: USXXCO

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 2004099975	A1	20040527	US 2003-397384	20030327
	TW 227719	B1	20050211	TW 2002-91134111	20021122
PRAI	TW 2002-91134111	A	20021122		

OS MARPAT 141:8009

AB A method of preparing a surface modifier for nanoparticles, and a dispersion of inorg. oxide nanoparticles are provided. The surface modifier is formed by hydrolyzing 1 part an alkoxysilane compound with 1-9 parts an alc./water solution, and the alkoxysilane compound is hydrolyzed to form a silanol. The weight ratio of alc. to water is 60:40-95:5. The alc./water solution can control the degree of forming of silanol, and thus prevents self-condensation of the silanol. The dispersion is formed by dispersing inorg. oxide nanoparticles in the aforesaid surface modifier, and can be used in the manufacture of inorg.-organic polymeric functional materials, especially anti-UV polyester products. Thus, 6 g  $\gamma$ -glycidoxypropyltrimethoxysilane, 27 mL ethanol, and 3 mL water were heated at 60° for 30 min to give a surface modifier, which was added into a solution containing 1 Kg Hombitec S

Suspension titanium oxide nanoparticle suspension and heated at 55° for 4 h to give a surface-modified nanoparticle with good stability and average particle size 100.7 nm, 5000 ppm of the resulting nanoparticle was added into a polyester precursor obtained from terephthalic acid and ethylene glycol in the presence of antimony trioxide and trimethylphosphate, 4000 ppm titanium oxide particle with particle size 0.3 µm was added therein and polymerized, and spun to give a fiber with ash content 0.89% and screen pressure increasing rate 0.7 bar/h.

ST surface modifier prepn nanoparticle modified inorg oxide;  
hydrolyzed glycidoxypopyltrimethoxysilane surface modifier;  
silanol modified titanium oxide nanoparticle polyester fiber

=> s (glycidoxypopyltrimethoxysilane or GOP) AND (nanoparticle or nanosphere or nanotube) AND (DNA or nucleic or polynucleotide)

L6 6 (GLYCIDOXYPROPYLTRIMETHOXYLSILANE OR GOP) AND (NANOPARTICLE OR NANOSPHERE OR NANOTUBE) AND (DNA OR NUCLEIC OR POLYNUCLEOTIDE)

=> dup remove l6

PROCESSING COMPLETED FOR L6

L7 5 DUP REMOVE L6 (1 DUPLICATE REMOVED)

=> d ti 1-5

L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Preparation and application of assembled magnetic composite particle

L7 ANSWER 2 OF 5 MEDLINE on STN DUPLICATE 1  
TI Optimization of gold nanoparticle-based DNA detection for microarrays.

L7 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Methods to increase nucleotide signals by Raman scattering

L7 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Means and methods for detection of binding of members of specific binding pairs

L7 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Modified silica particles for gene delivery

=> d bib 4

L7 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2003:355717 CAPLUS  
DN 138:350794  
TI Means and methods for detection of binding of members of specific binding pairs  
IN Fritzsche, Wolfgang; Czaki, Andrea; Koehler, Johann Michael; Moeller, Robert; Schut, Frederik; Oosting, Louis; Tan, Paris Som Tjwan  
PA Germany  
SO U.S. Pat. Appl. Publ., 22 pp., Cont.-in-part of U.S. Ser. No. 869,206.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003087277	A1	20030508	US 2002-215789	20020809
	DE 19860547	C1	20001012	DE 1998-19860547	19981223
	WO 2000039325	A2	20000706	WO 1999-EP10334	19991222
	WO 2000039325	A3	20001116		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,

KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,  
 MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,  
 TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW  
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6878539 B1 20050412 US 2001-869206 20010625  
 PRAI DE 1998-19860547 A 19981223  
 WO 1999-EP10334 W 19991222  
 US 2001-869206 A2 20010625

=> d bib 1,2

L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:1297049 CAPLUS  
 DN 144:63658  
 TI Preparation and application of assembled magnetic composite particle  
 IN Cui, Yali; Chen, Chao; Hui, Wenli; Wang, Shan; Wang, Yani; Du, Yanhua;  
 Wang, Huirong; Su, Jing  
 PA Shaanxi Lifegen Co., Ltd., Peop. Rep. China  
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 10 pp.  
 CODEN: CNXXEV  
 DT Patent  
 LA Chinese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1580765	A	20050216	CN 2003-153486	20030814
PRAI	CN 2003-153486		20030814		

L7 ANSWER 2 OF 5 MEDLINE on STN DUPLICATE 1  
 AN 2005244688 MEDLINE  
 DN PubMed ID: 15883771  
 TI Optimization of gold nanoparticle-based DNA detection  
 for microarrays.  
 AU Festag Grit; Steinbruck Andrea; Wolff Andreas; Csaki Andrea; Moller  
 Robert; Fritzsche Wolfgang  
 CS Institute for Physical High Technology Jena, Jena, Germany..  
 grit.festag@ipht-jena.de  
 SO Journal of fluorescence, (2005 Mar) Vol. 15, No. 2, pp. 161-70.  
 Journal code: 9201341. ISSN: 1053-0509.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200509  
 ED Entered STN: 11 May 2005  
 Last Updated on STN: 27 Sep 2005  
 Entered Medline: 26 Sep 2005

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NEWS 4 APR 04 STN AnaVist \$500 visualization usage credit offered  
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NEWS 6 MAY 11 KOREAPAT updates resume  
NEWS 7 MAY 19 Derwent World Patents Index to be reloaded and enhanced  
NEWS 8 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and  
USPATFULL/USPAT2  
NEWS 9 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS  
NEWS 10 JUN 02 The first reclassification of IPC codes now complete in  
INPADOC  
NEWS 11 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and  
and display fields  
  
NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.  
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT  
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=> file medline caplus biosis  
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FULL ESTIMATED COST

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